

CLAIMS

1. A service logic execution environment (SLEE) in an intelligent network model, said network model comprising an application layer and a protocol layer, said SLEE comprising:

a class loader for loading service components in the SLEE, the SLEE registering each loaded service component to receive events directed to particular registered service components; and,

an event routing bus for receiving events from the protocol layer and other service components, said event routing bus routing said received events to said particular registered service components executing in the SLEE.

2. The SLEE of claim 1, further comprising:

a thread pool; and,

a thread pool manager for allocating threads for use by said loaded service components.

3. The SLEE of claim 1, further comprising:

at least one timer for use by service components in the SLEE.

4. The SLEE of claim 1, further comprising:

at least one usage counter for recording service request response metrics.

5. The SLEE of claim 1, wherein said event routing bus is further configured to

receive events from application components which are external to the SLEE and the protocol layer.

6. The SLEE of claim 1, wherein each service component comprises:

at least one service instance; and,

a service wrapper for providing an interface to said at least one service instance.

1 7. The SLEE of claim 1, wherein each service component further comprises:

2 a deployment descriptor for providing configuration information to said SLEE,
3 wherein said SLEE can use said deployment descriptor to properly configure said
4 service component.

1 8. The SLEE of claim 1, wherein at least one of said service components contains
2 a protocol stack for managing communications in a communications network.

1 9. The SLEE of claim 1, wherein said SLEE implements a JAIN Service Logic
2 Execution Environment (JSLEE) interface.

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1 10. A method for routing events in a service logic execution environment (SLEE)
2 comprising the steps of:
3 receiving at least one event from a service component executing in the SLEE;
4 and,
5 routing each received event to a service component which has registered with
6 the SLEE to receive said routed event.

1 11. The method of claim 10, wherein said receiving step further comprises the step
2 of:
3 receiving at least one event from an application component which is external to
4 the SLEE.

1 12. The method of claim 10, wherein said receiving step further comprises the step
2 of :
3 receiving at least one event from a protocol stack.

1 13. A machine readable storage, having stored thereon a computer program for
2 routing events in a service logic execution environment (SLEE), said computer program

3 having a plurality of code sections executable by a machine for causing the machine to
4 perform the steps of:

5 receiving at least one event from a service component executing in the SLEE;
6 and,
7 routing each received event to a service component which has registered with
8 the SLEE to receive said routed event.

1 14. The machine readable storage of claim 13, wherein said receiving step further
2 comprises the step of:

3 receiving at least one event from an application component which is external to
4 the SLEE.

1 15. The machine readable storage of claim 13, wherein said receiving step further
2 comprises the step of :

3 receiving at least one event from a protocol stack.